U.S. Patent Application Serial No. **10/574,277** Amendment filed October 10, 2008

Reply to OA dated July 10, 2008

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

Claims 1-4: (Canceled).

Claim 5 (New): A process for manufacturing a lithium tantalate substrate by

using a lithium tantalate crystal grown by the Czochralski method, wherein;

a lithium tantalate crystal worked in the state of a substrate is buried in a mixed

powder of 25% by weight of Al and 75 % by weight of Al₂O₃, followed by heat treatment

carried out at a temperature kept to from 350 to 600°C for 20 hours in an atmosphere of

nitrogen gas and under reduced pressure, to manufacture a lithium tantalate substrate

having volume resistivity which has been controlled within the range of from 10^{10} to 10^{13}

Ωcm.

Claim 6: (New): A process for manufacturing a lithium tantalate substrate by using

a lithium tantalate crystal grown by the Czochralski method, wherein;

a lithium tantalate crystal worked in the state of a substrate is buried in a mixed

powder of 10% by weight of Al and 90 % by weight of Al₂O₃, followed by heat treatment

carried out at a temperature kept to from 350 to 600°C for 20 hours in an atmosphere of

nitrogen gas and under reduced pressure, to manufacture a lithium tantalate substrate

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having volume resistivity which has been controlled within the range of from 10^{10} to 10^{13} Ω cm.

Claim 7 (New): A process for manufacturing a lithium tantalate substrate by using a lithium tantalate crystal grown by the Czochralski method, wherein;

a lithium tantalate crystal worked in the state of a substrate is buried in a mixed powder of 50% by weight of Al and 50 % by weight of Al_2O_3 , followed by heat treatment carried out at a temperature kept to from 550°C for 40 hours in an atmosphere of nitrogen gas and under atmospheric pressure, to manufacture a lithium tantalate substrate having volume resistivity which has been controlled within the range of from 10^{10} to 10^{13} Ω cm.

Claim 8 (New): A process for manufacturing a lithium tantalate substrate by using a lithium tantalate crystal grown by the Czochralski method, wherein;

a lithium tantalate crystal worked in the state of a substrate is buried in a mixed powder of 25% by weight of Al and 75 % by weight of Al_2O_3 , followed by heat treatment carried out at a temperature kept to from 550°C for 10 hours in an atmosphere of vacuum, to manufacture a lithium tantalate substrate having volume resistivity which has been controlled within the range of from 10^{10} to 10^{13} Ω cm.